

Notice of Allowability

Application No.

10/050,849

Examiner

Chuong D. Ngo

Applicant(s)

OZAWA, KUNIIKO

Art Unit

2193

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to papers filed on 08/23/2005.
2. ☒ The allowed claim(s) is/are 2-4, 6-8, 10-15, 17, 19, 21, 23, 25-58 and 60-67.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Chuong D Ngo
Primary Examiner
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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

2. Authorization for this examiner's amendment was given in a telephone interview with applicant's representative, Ronald P. Kananen on 11/02/2005.

The application has been amended as follows:

In claim 4, line 11, before "a control", - - a value of - - has been inserted.

In claim 8, line 13, before "a control", - - a value of - - has been inserted.

In claim 13, line 16, before "a control", - - a value of - - has been inserted.

In claim 14, line 16, before "a control", - - a value of - - has been inserted.

In claim 15, line 20, before "a control", - - a value of - - has been inserted.

In claim 17, line 15, before "a control", - - a value of - - has been inserted.

In claim 19, line 18, before "a control", - - a value of - - has been inserted.

In claim 21, line 25, before "a control", - - a value of - - has been inserted.

In claim 23, line 22, before "a control", - - a value of - - has been inserted.

In claim 25, lines 25 and 27, before "a control", - - a value of - - has been inserted.

In claim 26, line 10, before "a control", - - a value of - - has been inserted.

In claim 28, line 11, before "a control", - - a value of - - has been inserted.

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In claim 30, line 14, before "a control", - - a value of - - has been inserted.

In claim 32, line 15, before "a control", - - a value of - - has been inserted.

In claim 34, line 16, before "a control", - - a value of - - has been inserted.

In claim 38, line 19, before "a control", - - a value of - - has been inserted.

In claim 43, line 18, before "a control", - - a value of - - has been inserted.

In claim 44, line 21, before "a control", - - a value of - - has been inserted.

In claim 45, line 11, before "a control", - - a value of - - has been inserted.

In claim 46, line 11, before "a control", - - a value of - - has been inserted.

In claim 48, line 14 , before "a control", - - a value of - - has been inserted.

In claim 58, line 13 , after "devices", - - according to a value of a control signal - - has been inserted.

In claim 67, line 15 , after "devices", - - according to a value of a control signal - - has been inserted.

In addition, the abstract of the invention has been replaced by a rewritten abstract that is within a following page.

ABSTRACT OF THE DISCLOSURE

An arithmetic device able to optimize the logic level, able to prevent an increase in the component data, able to prevent the area efficiency as an integrated operation efficiency, and circuit, achieving an improvement in the achieving a reduction power consumption, provided with a first selection device for selecting coefficient inputs C0I to CkI in accordance with a control signal ASEL, a second selection device for selecting data inputs D0I to DmI in accordance with a control signal BSEL, a third selection device for selecting cascade inputs P0 to Pn-2 in accordance with a control signal CSEL, an ALU for receiving as input the output signal of the first to third selection devices and performing a logic operation in accordance with instructions of the control signals ALUMD etc., a MAC for receiving as input the output signals of the first to third selection devices and performing operation in accordance with instructions of the control signal MACMD etc., and a fourth selection device for selecting one of signal of the ALU and the output signal of the MAC in accordance with a control signal ESEL.

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3. The following is an examiner's statement of reasons for allowance:

The prior art of record does not teach or fairly suggest an arithmetic device with means for reconfiguring operation path as recited in the claims including delay means for outputting the input data delayed by an amount of delay according to a value of a control signal.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D. Ngo whose telephone number is (571) 272-3731. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (571) 272-3719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Chuong D Ngo
Primary Examiner
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11/02/2005